PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT IS LOCATED AT THE INTERSECTION OF MD 5 AND THE 1-495 ON RAMP/AUTH ROAD IN PRINCE GEORGE'S COUNTY, MARYLAND AND INVOLVES ROADWAY IMPROVEMENTS, AND THE RECONSTRUCTION OF LOOP DETECTORS FOR THE EXISTING SIGNALTHAT IS EFFECTED BY THESE IMPROVEMENTS. MD 5 WILL OPERATE CONCURRENTLY AND WITH EXCLUSIVE LEFT TURNS. MD 5 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE PROPOSED TRAFFIC SIGNAL WILL OPERATE IN A NEMA SIX (6) PHASE, FULLY TRAFFIC ACTUATED MODE. THE MD 5 APPROACHES WILL OPERATE CONCURRENTLY. WITH EXCLUSIVE LEFT TURN PHASES. THE AUTH ROAD APPROACH WILL OPERATE SEPERATELY.

AN EXISTING EIGHT PHASE FULLY TRAFFIC ACTUATED CONTROLLER WILL REMAIN.

III. SPECIAL NOTES

- 1. THE SIGNAL SHOP WILL BE NOTIFIED TO PERFORM INTERNAL WIRING OF THE CABINET AT MD 458 AND SUITLAND ROAD, ALL CABLE SHALL BE IDENTIFIED AND BROUGHT INTO THE CONTROLLER BY THE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY MR. EDWARD RODENHIZER, SHA SIGNAL SHOP AT (410) 787-7650 SEVENTY-TWO (72) HOURS IN ADVANCE OF THIS WORK.
- 2. MOT PLATES FOR THIS PROJECT WILL BE AS FOLLOWS: 104.00 TO 104.00-12, 104.02-01, 104.03-01

CONSTRUCTION DETAILS

- (A) EXISTING CONTROLLER TO REMAIN
- (B) EXISTING STEEL SPAN WIRE POLE TO REMAIN
- (C) EXISTING HAND HOLE TO REMAIN
- (D) EXISTING CONDUIT TO REMAIN
- (E) EXISTING 6' X 30' LOOP DETECTOR TO BE REMOVED
- (F) EXISTING 6' X 30' LOOP DETECTOR TO REMAIN
- (G) INSTALL 6' X 30' LOOP DETECTOR IN /4INCH FLEXIBLE TUBING (3-6-3 TURNS)
- (H) INSTALL 24" WHITE PERMANENT PREFORMED PAVEMENT MARKING (STOP BAR)
- (1) INSTALL I IN. LIQUID TIGHT FLEXABLE NON-METALIC CONDUIT FOR DETECTOR SLEEVE
- (J) RELOCATE EXISTING SIGNAL HEAD
- (K) RELOCATE EXISTING OVERHEAD SIGN
- (REMOVE EXISTING OVERHEAD SIGN
- M REMOVE EXISTING SIGNAL HEAD
- (N) INSTALL 2* SCHEDULE 80 PVC CONDUIT TRENCHED
- (install 2" schedule 80 pvc conduit Bored
- P INSTALL HAND HOLE

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO.

DESCRIPTION 12* I-WAY, 4-SECTION (R,Y,G,GA) TRAFFIC SIGNAL HEAD - SPAN MOUNT 900001 2 EA

SHEET ALUMINUM SIGNS 900001

R3-5L SIGN (30 IN. X 36 IN.) "LEFT TURN ONLY"

B, EQUIPMENT TO BE SUPPLIED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
585445	50 LF	FURINSH AND INSTALL 24 * WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE (STOP BAR)
805160	60 LF	FURNISH AND INSTALL I IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT SLEEVE
861104	75 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR ALUMINUM SHIELDED
861108	400 LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR 14 AWG
862101	1700 LF	FURNISH AND INSTALL LOOP WIRE IN FLEXIBLE TUBING
862102	550 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (LOOP DETECTOR)
860220	2 EA.	INSTALL SIGNAL HEAD SPAN WIRE MOUNT ANY TYPE
813015	7.5 SF	INSTALL OVERHEAD SIGN
814004	2 EA.	REMOVE AND SALVAGE EXISTING SIGNAL HEAD
000008	EA.	RELOCATE EXISTING OVERHEAD SIGN
100118	4 EA.	FURNISH AND INSTALL HAND HOLE
800000	415 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT - TRENCHED
805105	130 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 PVC CONDUIT - BORED
822002	900 LF	FURNISH AND INSTALL 12 PAIR VOICE GRADE TELEMETRY JELLY FILLED INTERCONNECT CABLE - UNDERGROUND

THE FOLLOWING CONTACT PERSONS FOR DISTRICT # 3 ARE AS FOLLOWS:

Mr. Richard L. Daff, Sr. Chief, Traffic Operations Division (410) 787-7630

Mr. Majib Shakib Asst. District Engineer - Traffic (301) 513-7358

Mr. Augustine Rebish Acting Engineer - Utility (301) 513-7350

Mr. Charles Watkins District Engineer (301) 513-7311

Mr.Randy Brown Asst. District Engineer - Maintenance (301) 513-7304

The Power Company Representative is:

POTOMAC ELECTRIC POWER COMPANY

8300 OLD MARLBORO PIKE UPPER MARLBORO MARYLAND 20772 (301) 961-5325



WIRING DIAGRAM

STATE REGION NO.

WIRING KEY

A-D 2 CONDUCTOR ELECTRICAL CABLE (ALUMINUM SHIELDED)

E-F 7 CONDUCTOR ELECTRICAL CABLE NO. 14 AWG

EXISTING 12-PAIR VOICE GRADE TELEMETRY JELLY FILLED INTERCONNECT CABLE

12-PAIR VOICE GRADE TELEMETRY JELLY FILLED INTERCONNECT CABLE

LW LOOP WIRE

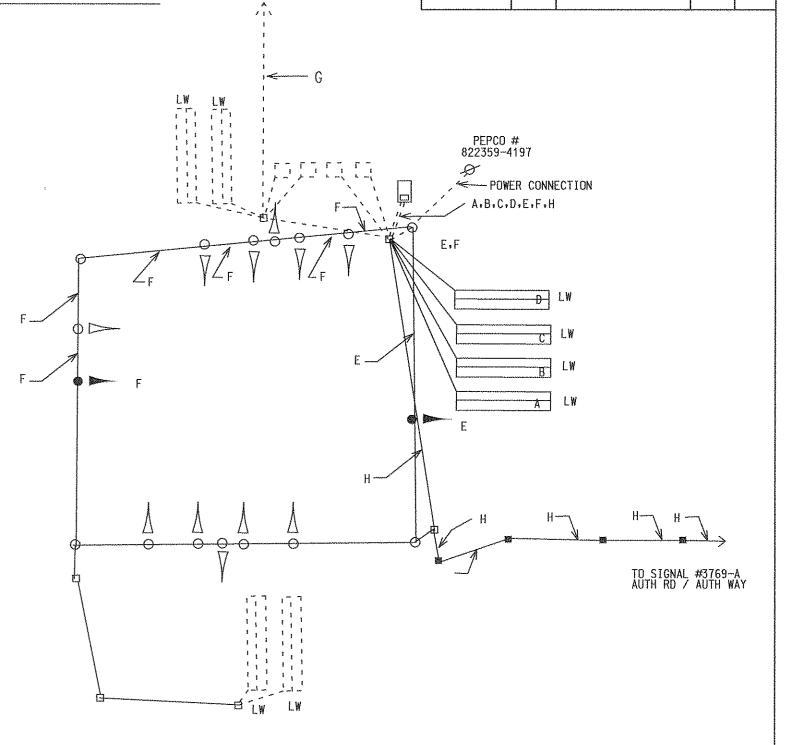
PHASE 4

FLASHING

OPERATION

PHASE 4 CHANGE

: 7/95 A/E GROUP
RECONSTRUCT FOR NEW GEOMETRICS



PHASE CHART -6 -6 -6 R R -R -6 -6 R R R R R PHASE 1 & 5 1 & 5 CHANGE TO PHASE 1 & 6 OR PHASE 2 & 5 PHASE 1 & 6 PHASE 1 & 6 CHANGE PHASE 2 & 5 PHASE 2 & 5 CHANGE ------PHASE 2 & 6 PHASE 2 & 6 CHANGE

SCALE:

DATE:

W.F. FITCH

MAY 20, 1992

S.H.A. NO.

COUNTY

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REVISIONS APPROVALS		MAF
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DESIGN SECTION		
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	MD.	5 (BI
9/98 PG2175170 RECONSTRUCT LOOP WIRES FOR AUTH RD DUE TO GEOMETRICS, REPOSITION SIGNAL HEADS CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION	DRAWN BY: _	T. MANK
	CHK. BY:	W.F. FITC
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DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

MD 5 (BRANCH AVE.) @ I-495 RAMP / AUTH ROAD LOG MILE: 16000512.17

SEE TITLE SHEET

BW-563-802-312

PRINCE GEORGE'S

GI NO.

SHEET NO.

_ OF ____ FILE: m:\metro..hw\md5..gen.dgi